INDEX

MATHEMATICAL NOTES

Volumes 21-22, 1977

MATHEMATICAL NOTES
Volumes 21-22, 1977

(A translation of Matematicheskie Zametki)

A

Abramovich, Yu. A. - 32
Aleksyuk, V. N. - 336
Amosov, A. A. - 117
Anashin, V. S. - 147
Arestov, V. V. - 231

B

Balaganskii, V. S. - 681
Balashov, L. A. - 77
Baskakov, V. A. - 433
Batirov, Kh. - 143
Belkin, V. P. - 676
Belobrov, P. K. - 301
Belyaev, V. A. - 321
Berman, S. D. - 127
Bessonov, A. V. - 23
Bloshanskii, I. L. - 438
Bogatyi, S. A. - 68
Bogdan, V. G. - 127
Boltyanskii, V. G. - 64, 839
Bovdi, A. A. - 725
Bruk, V. M. - 953
Bryuno, A. D. - 109
Buldygin, V. V. - 296

C

Chakmazyan, A. V. - 757, 853
Chebotarev, A. M. - 340
Cherenkov, A. P. - 119, 167
Chernikov, N. S. - 834
Cimbalario, I. - 91

D

Degtev, A. N. - 775
Dem'yanenko, V. A. - 3
Derevyanchenko, G. D. - 264
Ditkin, V. V. - 965
Donchenko, V. S. - 296
Doronin, V. G. - 174, 257, 688
Dunduchenko, L. E. - 183
D'yakonov, E. G. - 238
Dyment, E. Z. - 141

E

Édel'shtein, S. L. - 978
Egorychev, G. P. - 811
Éidel'man, S. D. - 290
Ermakov, P. V. - 825
Evzerov, I. D. - 285

F

Fomin, G. A. - 329

G

Gatullin, T. M. - 210
Gekhtman, M. M. - 117
Goncharenko, S. V. - 183
Gorin, E. A. - 179
Gorlov, V. V. - 769
Gozman, N. Ya. - 948
Grushko, P. Ya. - 844
Guseinov, E. G. - 931
Gvaradze, M. I. - 79

I

Il'in, V. A. - 870
Il'inskii, A. I. - 400
Il'yasov, N. A. - 931
Islamov, A. N. - 482
Ismagilov, R. S. - 865
Izobov, N. A. - 461

K

Kakichev, V. A. - 51, 264
Kalinin, V. A. - 68
Kaplan, L. I. - 971
Karakhanyan, M. I. - 179
Karapetyants, N. K. - 678
Kem'yanovich, Yu. K. - 245
Khachatryan, M. A. - 60
Khatamov, A. - 198
Khavinson, S. Ya. - 269
Khelemskii, A. Ya. - 51
Khrabustovskii, V. I. - 467
Khripta, I. I. - 725
Kirichenko, V. F. - 751
Klimkin, V. M. - 477
Klots, B. E. - 12
Kobzev, G. N. - 473
Kolchin, V. F. - 386
Kondrat'ev, V. A. - 290
Kondrat'ev, V. P. - 696
Konyagin, S. V. - 450
Korsakov, G. F. - 13
Kozhevnikov, A. N. - 882
Kramarev, B. A. - 165
Kravchenko, V. G. - 303
Kroo, A. V. - 85
Kudryavtsev, A. B. - 29
Kufarev, B. P. - 103
Kurdachenko, L. A. - 6
Kuzyurin, N. N. - 316

L

Lapin, S. V. - 346
Larin, S. V. - 132
Leont'eva, T. A. - 353
Lesin, V. V. - 271
Levin, A. M. - 61
Levitan, B. M. - 129
Ligun, A. A. - 174, 257, 688
Lis, B. F. - 821
Lomov, S. A. - 293
Lunina, M. A. - 783

M

Makarov, N. N. - 991
Makhnev, A. A. - 153
Manevich, D. V. - 143
Marinov, A. V. - 937
Markov, P. E. - 669
Matevosyan, G. U. - 98
Mel'nik, Yu. I. - 360
Miklyukov, V. M. - 307
Minkin, A. M. - 958
Morozov, S. F. - 373
Muradyan, O. A. - 269

N

Nagaev, S. V. - 143

Nagnibida, N. I. - 19
Nasyrova, Kh. - 865
Németh, G. - 325
Nyaga, V. I. - 228

O

Odinets, V. P. - 45
Olifirov, K. L. - 161
Oliinyk, N. P. - 19
Orlov, V. P. - 428
Osval'd, P. - 276
Ovsyannikov, A. Ya. - 257

P

Panov, A. A. - 22
Peregudov, S. A. - 762
Peresetskii, A. A. - 39
Pesin, Ya. B. - 29
Pokornyi, Yu. V. - 366
Poletskikh, V. M. - 137
Polin, S. V. - 737
Ponomarev, V. D. - 711
Pospelov, V.V. - 215
Povchun, L. P. - 246
Proizvolov, V. V. - 103
Pukal'skii, I. D. - 799
Pulatov, A. K. - 779

R

Radzievskii, G. V. - 218
Rakov, S. A. - 167
Rao, B. L. S. Prakasa - 941
Reinov, O. I. - 189
Rozenblyum, G. V. - 222
Rozovskii, L. V. - 996
Rumov, B. T. - 395
Rusak, V. N. - 699
Rybakov, V. I. - 45

S

Sabitov, I. Kh. - 77
Samko, S. G. - 379, 678
Satimov, N. - 231
Sedletskii, A. M. - 941
Sgibnev, M. S. - 916
Shakhmurov, V. B. - 297
Sharapov, V. G. - 54
Sharma, A. - 91
Shashkin, Yu. A. - 112
Shcherbakov, A. A. - 948
Shelkovich, V. M. - 51
Shevchik, V. V. - 767
Shul'man, V. S. - 816
Shvedenko, S. V. - 281
Sinanyan, S. O. - 277
Skvortsov, V. A. - 105, 186
Slepova, L. M. - 485
Slobodnik, S. G. - 971
Smirnov, V. A. - 311
Smolyanov, O. G. - 899
Sobolev, S. K. - 69
Soltan, V. P. - 839
Spevakov, V. N. - 29
Stepanets, A. I. - 190
Stepanov, S. A. - 147
Strakhov, V. A. - 85
Sukhinin, M. F. - 124
Sumin, V. I. - 373

T

Taikov, L. V. - 285, 789
Tarasov, B. V. - 742
Temlyakov, V. N. - 888
Tkachenko, V. A. - 221
Toger, A. V. - 1002
Tolstonogov, A. A. - 203
Tomskii, G. V. - 714
Trakhtman, A. N. - 487
Trelina, L. A. - 161
Tsereteli, O. D. - 921

U

Uglanov, A. V. - 794
Ul'yanov, P. L. - 455
Ushakov, Yu. D. - 811
Usmanov, Z. D. - 850

V

Vatutin, V. A. - 405
Velikin, V. L. - 860
Venttsel', A. D. - 720
Veretennikov, A. Yu. - 804
Vinogradov, A. A. - 253
Vinogradov, O. P. - 809
Voblyi, V. A. - 36
Vuvunikyan, Yu. M. - 732

Y

Yakubov, S. Ya. - 297
Yudin, A. A. - 702
Yudin, V. A. - 702

Z

Zagorskii, A. A. - 420
Zaitsev, A. A. - 255
Zarkhin, Yu. G. - 3, 415
Zhdanov, V. A. - 137
Zhuk, V. V. - 153, 445
Zinchenko, N. M. - 72
Zubkov, A. M. - 906
Zyuz'kov, V. M. - 103

MATHEMATICAL NOTES
Volumes 21-22, 1977

(A translation of Matematicheskie Zametki)

VOLUME 21, NUMBER 1, JANUARY, 1977

	Engl.	Russ.
On Exact Bounds of the p-Torsion of Some Curves of the First Type – V. A. Dem'yanenko	3	3
FC Groups Whose Periodic Parts Can Be Embedded in Direct Products of Finite Groups – L. A. Kurdachenko	6	9
Approximation of Differentiable Functions by Functions of Large Smoothness – B. E. Klots	12	21
On the Equivalence of Differential Operators of Infinite Order in Analytic Spaces – N. I. Nagnibida and N. P. Oliinyk	19	33
Computation of the ε Entropy of the Space of Continuous Functions with the Hausdorff Metric – A. A. Panov	22	39
Absolute Summability of Orthogonal Series by Euler's Method – V. N. Spevakov and A. B. Kudryavtsev	29	51
On Certain Properties of Growth Points and Their Application to Symmetric Spaces – Yu. A. Abramovich	32	57
Asymptotic Formulas for the Enumerator of Trees with a Given Number of Hanging or Internal Vertices – V. A. Voblyi	36	65
Singularity of Homogeneous Einstein Metrics – A. A. Peresetskii	39	71
Certain Properties of Measures on a Normed Space Possessing the Property RN – V. I. Rybakov	45	81
On the Representation of Differentiations by Hamiltonians, Operating from an Algebra of Local Observable Spin Systems – A. Ya. Khelemskii	51	93
On Exact Endomorphisms with a Quasi-Invariant Measure – V. G. Sharapov	54	99
On Certain Theorems of Analysis in the Formal System of Kleene–Vesley – M. A. Khachatryan	60	109
Several Theorems of Combinatorial Geometry – V. G. Boltyanskii	64	117
Movability Relative to Various Classes of Spaces – S. A. Bogatyi and V. A. Kalinin	68	125
Hausdorff Dimension of the Graph of a Gaussian Random Field – N. M. Zinchenko	72	133

VOLUME 21, NUMBER 2, FEBRUARY, 1977

Embedding Two-Dimensional Metrics in E^4 – I. Kh. Sabitov	77	137
On a Class of Spaces of Analytic Functions – M. I. Gvaradze	79	141
Some Questions in the Theory of Inverse Problems for Differential Operators – V. A. Strakhov	85	151
Certain Linear Differential Operators and Generalized Differences – A. Sharma and I. Cimbalario	91	161
Analogs of the N $\{\omega\}$ Classes in the Case of a Circular Annulus – G. U. Matevosyan	98	173
On Integrals Constant on Congruent Domains – V. V. Proizvolov	103	183

On the Uniqueness Condition for the Representation of Functions by Walsh Series – V. A. Skvortsov 105 187
On Sets Admitting Chebyshev Vector Systems – Yu. A. Shashkin 112 199
Asymptotics of the Eigenvalues of the Dirichlet and Neumann Problems for the Abstract Sturm–Liouville Operator – M. M. Gekhtman 117 209
Asymptote of Additive Functionals of Semi-Markov Processes with Arbitrary Sets of States – A. P. Cherenkov 119 213
A Weakened Variant of the Law of Lagrange Multipliers in a Banach Space – M. F. Sukhinin 124 223
On the Isomorphism of Real Group Algebras of Abelian Groups – S. D. Berman and V. G. Bogdan 127 229
Abelian Groups Admitting Fixed-Point-Free Automorphisms of Order q^n – S. V. Larin 132 239
Topological Groups with the Compactness Condition for Conjugate Classes – V. M. Poletskikh 137 251
Two Theorems on Finite Unions of Regressive Immune Sets – E. Z. Dyment 141 259

REPORTS READ AT THE GENERAL MEETING OF THE MATHEMATICS SECTION OF THE ACADEMY OF SCIENCES OF THE USSR
Equations over Finite Fields – S. A. Stepanov 147 271

REPORTS READ AT THE INTERNATIONAL CONFERENCE ON THE THEORY OF APPROXIMATION OF FUNCTIONS HELD AT KALUGA, JULY 24-28, 1975
Some Exact Inequalities between the Best Approximations and Moduli of Continuity of High Orders – V. V. Zhuk 153 281

VOLUME 21, NUMBER 3, MARCH, 1977

Algebraic Integers with Discriminants Containing Fixed Prime Divisors – L. A. Trelina . 161 289
Topological Groups with Invariant Centralizers of Elements – B. A. Kramarev 165 297
Attainability Property and Ergodicity Theorems for a Semi-Markov Process with an Arbitrary Set of States – A. P. Cherenkov 167 301
The Best One-Sided Approximation of the Classes $W^r H_\omega$ – V. G. Doronin and A. A. Ligun . 174 313
Mapping of n-Connected Circular Region onto a Plane with Cuts along the Arcs of Logarithmic Spirals – L. E. Dunduchenko and S. V. Goncharenko 183 329
The h-Measure of M-Sets for a Walsh System – V. A. Skvortsov 186 335
Approximation by Riesz Sums of Periodic Functions of Hölder Classes – A. I. Stepanets . . 190 341
Rational Approximations of Convex Functions – A. Khatamov 198 355
Asymptotic Behavior of the Fundamental Solution of an Elliptic Equation with Respect to a Complex Parameter – T. M. Gataullin 210 377
Completeness of Root Vectors of a Keldysh Pencil Perturbed by an Analytic Operator-Valued Function $S(\lambda)$ with $S(\infty) = 0$ – G. V. Radzievskii 218 391
An Asymptotic of the Negative Discrete Spectrum of the Schrödinger Operator – G. V. Rozenblyum 222 399
Singular Integral Operators along a Complex Contour – V. I. Nyaga 228 409
A Nonlinear Differential Evasion Game – N. Satimov 231 415
Some Topological and Geometrical Problems Arising in Projective-Difference Methods for the Triangulation of a Domain – E. G. D'yakonov 238 427

REPORTS READ AT THE INTERNATIONAL CONFERENCE ON THE THEORY OF APPROXIMATION OF FUNCTIONS HELD AT KALUGA DURING JULY 24-28, 1975

Divergence of the Lagrange Interpolation Processes Constructed with Respect to Laguerre Nodes – L. P. Povchun 246 443

VOLUME 21, NUMBER 4, APRIL, 1977

Nonaxiomatizability of Lattice-Orderable Rings – A. A. Vinogradov	253	449
A Property of Polarization – A. A. Zaitsev	255	453
Lattice Isomorphisms of Free Semigroups – A. Ya. Ovsyannikov	257	459
The Riemann Problem and Expansion of Entire Functions of Two Variables with Respect to Quasiexponential Bases – G. D. Derevyanchenko and V. A. Kakichev	264	473
An Analog of the System of Reference Functions Corresponding to the Walsh Functions – V. V. Lesin	271	485
The Norm in C of Orthogonal Projections onto Subspaces of Polygonal Functions – P. Osval'd	276	495
The Interpolation of l^r Sequences by H^p Functions – S. V. Shvedenko	281	503
Domains of Fractional Powers of Ordinary Differential Operators in Spaces L_p – I. D. Evzerov	285	509
The Membership of Solutions of Quasielliptic Equations to Space L_p – V. A. Kondrat'ev and S. D. Éidel'man	290	519
Unique Solvability of Certain Matrix Partial Differential Equations – S. A. Lomov	293	525
The Convergence to Zero of Gaussian Sequences – V. V. Buldygin and V. S. Donchenko	296	531
The Operator of Minimal Continuance of Linear Functionals – P. K. Belobrov	301	539
Two Theorems on Boundary Properties of Minimal Surfaces in Nonparametric Form – V. M. Miklyukov	307	551
Functor D and Strong Homotopy – V. A. Smirnov	311	557
Minimal Coverings and Maximal Packings of (k – 1)-Subsets by k-Subsets – N. N. Kuzyurin	316	565
REPORTS DELIVERED AT THE INTERNATIONAL CONFERENCE ON THE THEORY OF APPROXIMATION OF FUNCTIONS, KALUGA, JULY 24-28, 1975		
Summation of Power Series by Regular Methods – V. A. Belyaev	321	573
Relative Rational Approximation of the Function e^x – G. Németh	325	581
Conditions for Convergence of Fourier Series in the L Metric – G. A. Fomin	329	587

VOLUME 21, NUMBER 5, MAY, 1977

Birthday	335	595
Theorem on the Minorant. The Denumerability of Maharam's Problem – V. N. Aleksyuk	336	597
T-Maps Connected with Hartree's Equation – A. M. Chebotarev	340	605
Theorem on a Convergence Condition in the Spaces – S. V. Lapin	346	615
Series of Rational Fractions with Rapidly Decreasing Coefficients – T. A. Leont'eva	353	627
The Representation of Regular Functions by Direchlet Series – Yu. I. Mel'nik	360	641
Some Estimates of Differentiable Functions – Yu. V. Pokornyi	366	653
A Nonlinear Integrodifferential Equation of Nonstationary Transfer – S. F. Morozov and V. I. Sumin	373	665
Fundamental Functions Vanishing on a Given Set and Division by Functions – S. G. Samko	379	677
Branching Processes, Random Trees, and a Generalized Scheme of Arrangements of Particles – V. F. Kolchin	386	691

VOLUME 21, NUMBER 6, JUNE, 1977

A Recursive Method of Construction of Resolvable BIB-Designs – B. T. Rumov	395	707
The Arithmetic of the Characteristic Polya Functions – A. I. Il'inskii	400	717
A Conditional Limit Theorem for a Critical Branching Process with Immigration – V. A. Vatutin	405	727
Endomorphisms of Abelian Varieties and Points of Finite Order in Characteristic p – Yu. G. Zarkhin	415	737
Three-Dimensional Conical Fibrations – A. A. Zagorskii	420	745
Degenerate Differential Operators in Weighted Hölder Spaces – V. P. Orlov	428	759
Asymptotics of the Approximation of Continuous and Differentiable Functions by the Singular Integrals of de la Vallée Poussin – V. A. Baskakov	433	769
The Convergence of Double Fourier Series of Functions from L_p, $p > 1$ – I. L. Bloshanskii	438	777
Certain Exact Bounds for Seminorms Given on Spaces of Periodic Functions – V. V. Zhuk	445	789
Integral Points on Strictly Convex Closed Curves – S. V. Konyagin	450	799
Remarks on Mean Convergence – P. L. Ul'yanov	455	807
The Transfer of the Lyapunov Integral Criterion to Two-Dimensional Periodic Systems of Second Order – N. A. Izobov	461	817
The Discrete Spectrum of Perturbed Differential Operators of Arbitrary Order with Periodic Matrix Coefficients – V. I. Khrabustovskii	467	829
Recursively Enumerable bw-Degrees – G. N. Kobzev	473	839
Finitely Additive Set Functions into a Topological Group – V. M. Klimkin	477	847
The Structure of Lattice-Ordered Commutative Topological Groups of Compact Origin – A. N. Islamov	482	855
Radical Formations – L. M. Slepova	485	861
A Variety of Semigroups without an Irreducible Basis for Identities – A. N. Trakhtman	487	865

VOLUME 22, NUMBER 1, JULY, 1977

Torsion of Abelian Varieties of Finite Characteristic – Yu. G. Zarkhin	3	493
Generalized Theorems of Liénard and Shepherd – G. F. Korsakov	13	498
New Operations in Intuitionistic Calculus – A. V. Bessonov	23	503
Description of π-Partition of a Diffeomorphism with Invariant Measure – Ya. B. Pesin	29	506
Conditions for Uniqueness of a Projector with Unit Norm – V. P. Odinets	45	515
Solution of Boundary-Value Problems in the Theory of Analytic Functions of Several Variables in Vladimirov Algebras – V. A. Kakichev and V. M. Shelkovich	51	518
One Conservative Extension of Formal Mathematic Analysis with a Scheme of Dependent Choice – A. M. Levin	61	524
The Intuitionistic Propositional Calculus with Quantifiers – S. K. Sobolev	69	528
Trigonometric Series with Monotone Coefficients – L. A. Balashov	77	533
The Correctness Problem for Best Approximations by Trigonometric Polynomials in the Class $W_0^r H[\omega]C$ – A. V. Kroo	85	536
The Problem of Boundary Correspondence – B. P. Kufarev and V. M. Zyuz'kov	103	546
Properties of Certain Functions of Celestial Mechanics – A. D. Bryuno	109	550
A Positive Solution of an Elliptic Equation with Nonlinear Integral Boundary Condition of the Radiation Type – A. A. Amosov	117	555

Another Method for Computing the Densities of Integrals of Motion for the Korteweg–De Vries Equation – B. M. Levitan 129 562
The Componentwise Descent Method – V. A. Zhdanov 137 566
The Esseen Inequality for Sums of a Random Number of Differently Distributed Random Variables – Kh. Batirov, D. V. Manevich, and S. V. Nagaev 143 569
Functionally Complete Groups – V. S. Anashin 147 571
Groups with a Centralizer of Sixth Order – A. A. Makhnev 153 574

VOLUME 22, NUMBER 2, AUGUST, 1977

Determination of a Neighborhood of the Imaginary Axis Which Is Disjoint from the Spectrum of a Real Polynomial – K. L. Olifirov 161 581
The C-Convexity of Banach Spaces with Unconditional Bases – S. A. Rakov 167 584
An Asymptotic Variant of the Fuglede–Putnam Theorem on Commutators for Elements of Banach Algebras – E. A. Gorin and M. I. Karakhanyan 179 591
Geometric Characterization of RN-Operators – O. I. Reinov 189 597
Support Functions of Convex Compacta – A. A. Tolstonogov 203 604
A Family of Extension Operators – V. V. Pospelov 215 610
Invariant Subspaces and Unicellularity of Operators of Generalized Integration in Spaces of Analytic Functional – V. A. Tkachenko 221 613
Uniform Regularization of the Problem of Calculating the Values of an Operator – V. V. Arestov 231 618
On a Weighted Estimate of Best Approximations in $L_2(\Omega)$ – Yu. K. Dem'yanovich 245 627
Upper Bounds of Best One-Sided Approximations of the Classes $w^r L_\Psi$ in the Metric of L – V. G. Doronin and A. A. Ligun 257 633
Absolute Values of the Coefficients of the Polynomials in Weierstrass's Approximation Theorem – O. A. Muradyan and S. Ya. Khavinson 269 641
Completeness of Analytic Functions and Extremality of the Coefficients of a Laurent Series – S. O. Sinanyan 277 646
Diameters of Certain Classes of Analytic Functions – L. V. Taikov 285 650
Theorems on Imbedding in Anisotropic Spaces of Vector-Valued Functions – S. Ya. Yakubov and V. B. Shakhmurov 297 657
One Functional Equation with Displacement in the Space of Continuous Functions – V. G. Kravchenko 303 660

VOLUME 22, NUMBER 3, SEPTEMBER, 1977

The Rigidity of Internally Pasted Star-Shaped Surfaces – P. E. Markov 669 321
Quasi-identities of Certain Finite Algebras – V. P. Belkin 676 335
Discrete Convolution Operators with Almost-Stabilized Coefficients – N. K. Karapetyants and S. G. Samko 678 339
Weak Continuity of Metric Projections – V. S. Balaganskii 681 345
Best-Possible One-Sided Approximations in the Classes $W_\infty^r V(r > -1)$ by Trigonometric Polynomials in the Metric of L_1 – V. G. Doronin and A. A. Ligun 688 357
Some Extremal Properties of Positive Trigonometric Polynomials – V. P. Kondrat'ev 696 371
A Method of Approximation by Rational Functions on the Real Line – V. N. Rusak 699 375
Discrete Imbedding Theorems and Lebesgue Constants – A. A. Yudin and V. A. Yudin 702 381
Absolute Upper Semicontinuity – V. D. Ponomarev 711 395

	Engl.	Russ.
Existence of a Value in Semidynamical Games – G. V. Tomskii	714	401
The First Boundary Exit Point of a Diffusion Process with Small Diffusion – A. D. Venttsel'	720	411
Group Algebras of Periodic Groups of a Solvable Multiplicative Group – A. A. Bovdi and I. I. Khripta	725	421
Asymptotic Resolvent and Theorems on Generation of Semigroups of Operators in Locally Convex Spaces – Yu. M. Vuvunikyan	732	433
Identities in Congruence Lattices of Universal Algebras – S. V. Polin	737	443
A Class of Inert Semigroup Rings – B. V. Tarasov	742	453

VOLUME 22, NUMBER 4, OCTOBER, 1977

	Engl.	Russ.
K-Spaces of Maximal Rank – V. F. Kirichenko	751	465
A Class of Submanifolds in V_c^n with Parallel p-Dimensional Subbundle of the Normal Bundle – A. V. Chakmazyan	757	477
Some Remarks on b-Paracompact Spaces – S. A. Peregudov	762	485
Spectrum of a Linear Operator in a Family of Banach Spaces Containing Hilbert Space – V. V. Shevchik	767	495
Closed Classes of k-Valued Logic, All of Whose Congruences Are Trivial – V. V. Gorlov	769	499
A Family of Maximal Subalgebras of R. Robinson's Algebra – A. N. Degtev	775	511
Absence of Localization of the Laplace Series on the Sphere for Functions of the Nikol'skii Class $H_1^1(S^2)$ – A. K. Pulatov	779	517
An Arithmetical Example of a Non-Borel Luzin Analytic Set – M. A. Lunina	783	525
Best Approximations of Differentiable Functions in the Metric of the Space L_2 – L. V. Taikov	789	535
Singular Generalized Functions of an Infinite-Dimensional Argument – A. V. Uglanov	794	543
Estimates of Solutions of Parobolic Equations Degenerating on the Boundary of a Domain – I. D. Pukal'skii	799	553
The Ergodicity of Service Systems with an Infinite Number of Servomechanisms – A. Yu. Veretennikov	804	561
Decomposition of Weakly Aging Distributions – O. P. Vinogradov	809	571
The Ranks of the p-Central Series of Free Groups of Certain Manifolds – G. P. Egorychev and Yu. D. Ushakov	811	575
Representations of C^*-Algebras in Spaces with Indefinite Metric – V. S. Shul'man	816	583
REPORTS PRESENTED AT THE INTERNATIONAL CONFERENCE ON THE THEORY OF APPROXIMATION OF FUNCTIONS (KALUGA, JULY 24-28, 1975)		
A Method of Approximation by Interpolation Splines with Application of Integral Relations – B. F. Lis	821	593
The Convergence of Some Linear Operators to Functions of Class Z_α – P. V. Ermakov	825	601

VOLUME 22, NUMBER 5, NOVEMBER, 1977

	Engl.	Russ.
Groups with a Dense System of Complemented Nonextremal Abelian Subgroups – N. S. Chernikov	834	611
Borsuk's Problem – V. G. Boltyanskii and V. P. Soltan	839	621
Morphisms of Geometric Structures – P. Ya. Grushko	844	633
The Problem of Local Rigidity in the Class C^∞ – Z. D. Usmanov	850	643
A Submanifold in P^n with Parallel Normal Subbundle Which Is Normalized in the Sense of Norden – A. V. Chakmazyan	853	649

Engl./Russ.

Optimal Interpolation of Differentiable Periodic Functions with Bounded Higher Derivative – V. L. Velikin 860 663
Diameters of a Class of Smooth Functions in the Space L_2 – R. S. Ismagilov and Kh. Nasyrova 865 671
Convergence of Eigenfunction Expansions at Points of Discontinuity of the Coefficients of a Differential Operator – V. A. Il'in 870 679
Separate Asymptotics of Two Series of Eigenvalues for a Single Elliptic Boundary-Value Problem – A. N. Kozhevnikov 882 699
Order of Growth of the Degrees of a Polynomial Basis of a Space of Continuous Functions – V. N. Temlyakov 888 711
Higher Derivatives of Mappings of Locally Convex Spaces – O. G. Smolyanov 899 729
Inequalities for the Distribution of a Sum of Functions of Independent Random Variables – A. M. Zubkov 906 745
A Characterization of Gaussian Measures on Locally Compact Abelian Groups – B. L. S. Prakasa Rao 914 759
Distribution of the Supremum of Sums of Independent Variables with Negative Drift – M. S. Sgibnev 916 763

DOCTORAL DISSERTATIONS
Conjugate Functions – O. D. Tsereteli 921 771

VOLUME 22, NUMBER 6, DECEMBER, 1977

Differential and Smoothness Propertiesof Continuous Functions – E. G. Guseinov N. A. Il'yasov 931 785
The Lipschitz Condition for a Metric Projection Operator in the Space C $[a, b]$ – A. V. Marinov 937 795
Excesses of Systems of Exponential Functions – A. M. Sedletskii 941 803
Kernels of Sequences of Complex Numbers and Their Regular Transformations – A. A. Shcherbakov 948 815
Extensions of Symmetric Relations – V. M. Bruk 953 825
Regularity of Self-Adjoint Boundary Conditions – A. M. Minkin 958 835
Some Spectral Properties of a Bundle of Linear Operators in Banach Space – V. V. Ditkin 965 847
Monotone Transformations and Differential Properties of Functions – L. I. Kaplan and S. G. Slobodnik 971 859
Boundedness of the Convolution Operator in $Lp(Z^m)$ and Smoothness of the Symbol of the Operator – S. L. Édel'shtein 978 873
On the Theory of Self-Conjugate Cobordisms – N. Ya. Gozman 984 885
Continuous Selector of Representative Measures and the Space of Faces of a Convex Compactum – N. N. Makarov 991 897
On the Properties of Asymptotic Expansions – L. V. Rozovskii 996 907

REPORTS READ AT THE INTERNATIONAL CONFERENCE ON THE APPROXIMATION THEORY OF FUNCTIONS HELD AT KALUGA FROM JULY 24-28, 1975
The ε-Entropy of a Compactum of Smooth Functions – A. V. Toger 1002 915

INDEX
Author Index, Volumes 21-22, 1977 1009
Tables of Contents, Volumes 21-22, 1977 1011

X-10174